

OmniPro™ TPO MF10 HSV

Thermoplastic Elastomer

OMNI Plastics, LLC

Message:

High Impact Resistance, High Stiffness, Mineral Reinforced, Heat & UV Stabilized, Thermoplastic Elastomer

General Information			
Filler / Reinforcement	Mineral, 10% Filler by Weight		
Additive	Heat Stabilizer		
	UV Stabilizer		
Features	Good UV Resistance		
	Heat Stabilized		
	High Impact Resistance		
	High Stiffness		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.978	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage	1.0 to 1.6	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	17.2	MPa	ASTM D638
Flexural Modulus	1100	MPa	ASTM D790
Flexural Strength	17.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (-5°C)	No Break		ISO 179/1A
Charpy Unnotched Impact Strength (-5°C)	No Break		ISO 179/1U
Notched Izod Impact			ASTM D256
-30°C, 3.18 mm	320	J/m	
23°C, 3.18 mm	No Break		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.18 mm)	71.1	°C	ASTM D648
Vicat Softening Temperature	138	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating	HB		Internal Method
Injection	Nominal Value	Unit	
Rear Temperature	204 to 249	°C	
Middle Temperature	216 to 260	°C	

Front Temperature	216 to 260	°C
Nozzle Temperature	216 to 260	°C
Processing (Melt) Temp	216 to 260	°C
Mold Temperature	26.7 to 60.0	°C
Back Pressure	0.345 to 0.689	MPa

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Recommended distributors for this material

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